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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 11279 (1985): Braille Slate [MHD 10: Medical Laboratory Instruments]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaranay Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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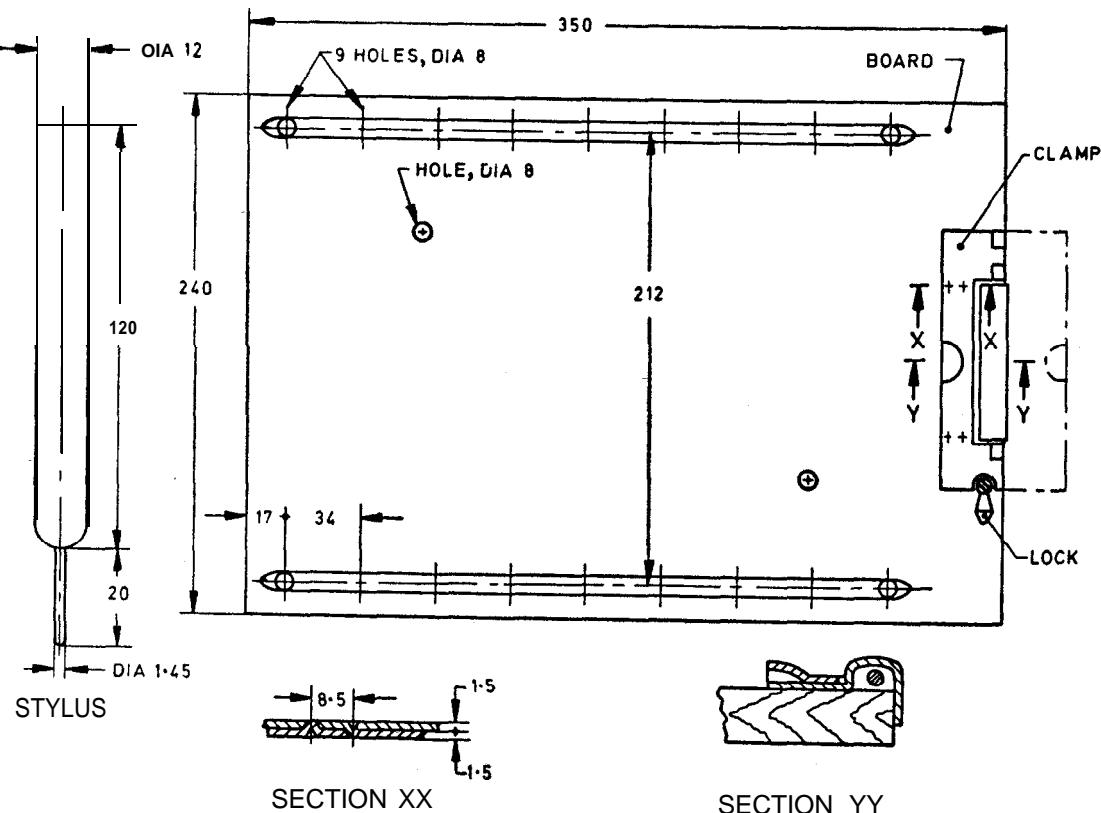


Indian Standard

SPECIFICATION FOR BRAILLE SLATE

1. Scope — Specifies dimensional and other requirements for braille slate used for communicating language by the blind persons.

2. Shape -and Dimensions — As shown in Fig. 1, 2 and 3



All dimensions in millimetres.

FIG. 1 BRAILLE SLATE

2.1 Tolerances on various dimensions shall be permitted as given below:

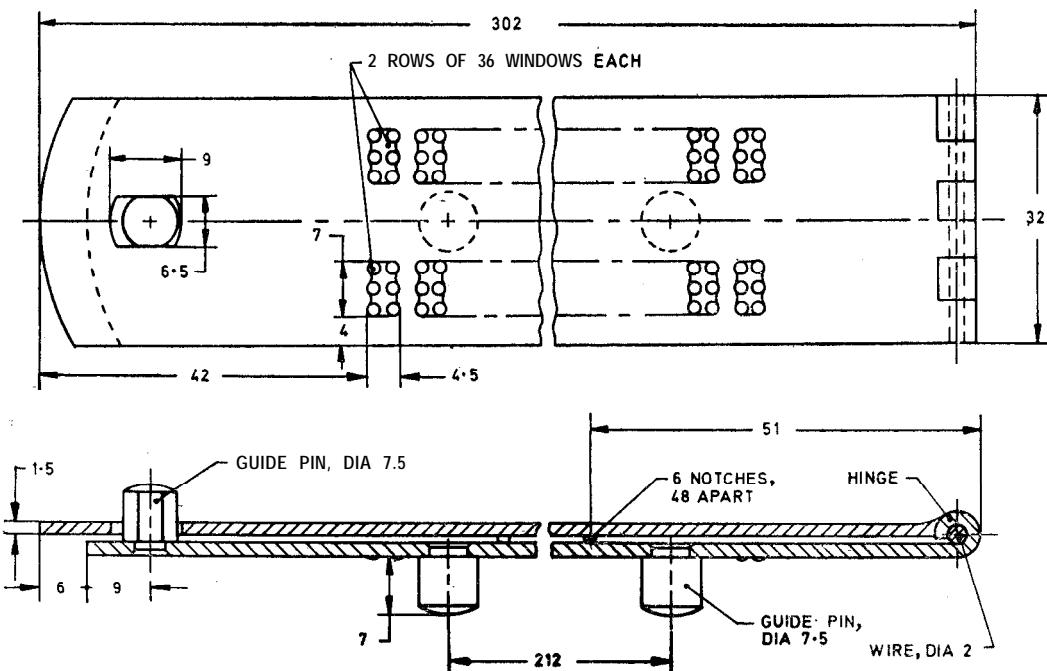
- ± 0.05 mm on dimensions up to 2'0 mm,
- ± 0.1 mm on dimensions above 2'0 mm and up to 5'0 mm,
- ± 0.2 mm on dimensions above 5'0 mm and up to 20'0 mm,
- ± 0.5 mm on dimensions above 20'0 mm and up to 50'0 mm,
- ± 1.0 mm on dimensions above 50'0 mm and up to 100'0 mm,
- ± 2.0 mm on dimensions above 100'0 mm and up to 200'0 mm, and
- ± 5.0 mm on dimensions above 200'0 mm.

3. Material

3.1 Base Board — Plywood of shuttering type double coated as per IS : 303-I 975 'Specification for plywood for general purposes (**second revision**)', plastics (ABS type) or any other suitable material which shall be durable and light.

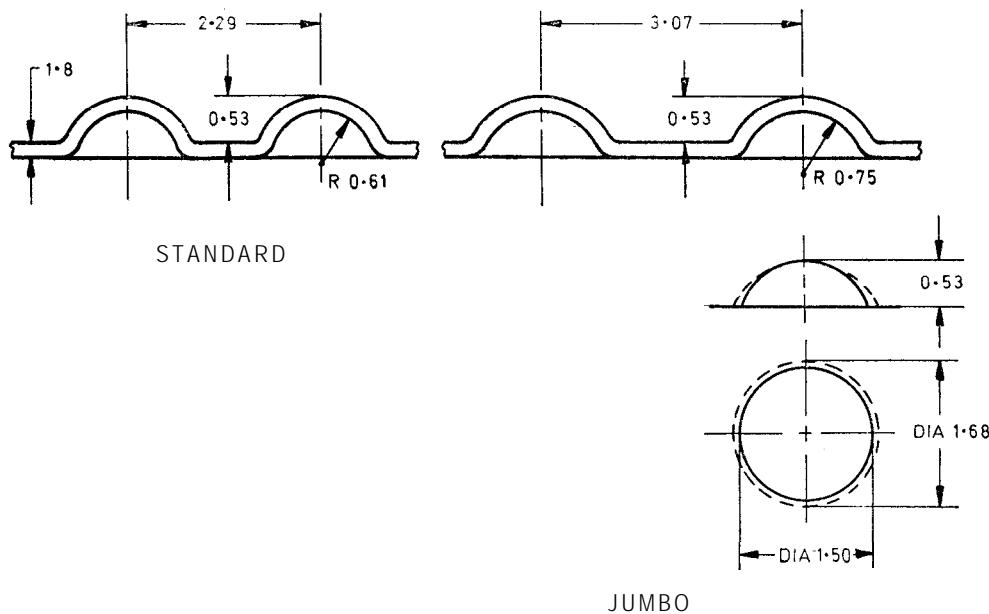
3.2 Clamps — Galvanized iron sheet, aluminium, plastic sheets or any other suitable material.

3.3 Writing Guide — Cold rolled carbon steel sheets, aluminium alloy, plastics (ABS type) or any other suitable material.



All dimensions in millimetres.

FIG. 2 WRITING GUIDE



All dimensions in millimetres.

FIG. 3 DETAILS OF CELLS

4. Construction

4.1 The base board shall have grooves on two sides with 8 mm diameter holes for guiding two line writing frame. Thickness of the board shall be about 12 mm when put on flat surface. Two holes of 8 mm diameter at appropriate depths shall be provided on the board in such a manner that the two line writing frame may be fixed when not in use and does not extend beyond the board.

4.2 On the top edge of the board clamp shall be fixed. The clamp may have the hinges as shown in the figure or may have any other suitable arrangement for clamping the paper. Four pins as shown in the figure shall be fixed in the clamp in such a way that the writing on both sides of the paper is possible. The distance between the two pins shall be 8'5 mm. There shall be locking arrangement for locking the clamp when in use.

4.3 Writing Guide — The writing guide shall have the cells embossed as shown in Fig. 3. It shall be hinged at one end and a pin and a hole shall be made at the other end, so as to fit in at the appropriate place without any shake or play. Two pins shall also be fixed at a distance, of 212 mm centre to centre so as to guide the writing guide in the **holes of the base board**.

5. Workmanship and Finish — The base board, clamp and the writing guide shall not have any sharp edges, rough surfaces, or any other imperfections. It shall be suitably polished and finished smooth. The wooden components shall be finished smooth and polished by lac with the medium of spirit. The metal components may be anodized [see IS : 1868-1982 Specification for anodic coatings on aluminium and its alloy (*second revision*)] or chromium over nickel plated [see IS : 1068-1968 Specification for electroplated coatings of nickel and chromium on iron and steel (*first revision*)] or galvanized (see IS : 2629-1966 Recommended practice for hot-dip galvanizing of iron and steel).

6. Test

6.1 *Pull Test for Clamp* — The braille paper shall be fixed suitably within the clamp. A pull of 5 N (500 g approx) shall be applied uniformly widthwise of the paper. The paper shall not come out from the clamp or tear off.

7. Marking — All components shall be marked with the manufacturers name, initials or recognized trade-mark.

7.1 *ISI Certification Marking* — Details available with the Indian Standards Institution.

8. Packing — As agreed to between the purchaser and the supplier.

9. Sampling — Sampling scheme and criteria for acceptance shall be as agreed to between the manufacturer and the purchaser. However a recommended sampling plan is given in Appendix A.

A P P E N D I X A

(Clause 9)

SCALE OF SAMPLING AND CRITERIA FOR CONFORMITY

A-1. Lot — In any consignment all the braille slates of the same size produced under similar conditions from the same raw material shall constitute a lot.

A-2. The number of slates to be selected from each lot shall depend upon the size of the lot and shall be in accordance with col 1 and 2 of Table 1.

TABLE 1 SCALE OF SAMPLING

L ot Size	Sample Size
Up to 25	3
26 to 100	5
101 to 150	8
151 to 500	13
501 and above	20

A-2.1 These slates shall be selected from the lot at random and in order to ensure the randomness of selection, procedures given in IS : 4905-1968 'Methods for random sampling', may be followed.

A-3. Number of Tests and Criteria for Conformity — All the slates selected at random in accordance with col 1 and 2 of Table 1 shall be tested for shape and dimensions, construction, workmanship and finish and pull test for clamp. The lot shall be considered as conforming to these requirements if none of the slates in the sample is found to be defective in any of these tests.

EXPLANATORY NOTE

Braille slate is a very common item being used by the blind persons for reading and writing languages. Studies were made on different types of Braille slate and the most common type and its dimensions were incorporated in this standard.